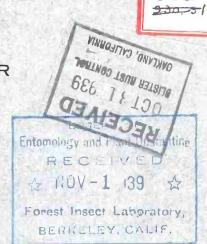
UNITED STATES DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

SEQUOIA NATIONAL PARK
SEQUOIA NATIONAL PARK, CALIF.

October 30, 1939

ANNUAL FOREST INSECT REPORT Sequota National Park 1939



Official assignment as Acting Park Forester has not as yet been received, but I have been informed that I am responsible for the submission of the Annual Insect Control Report.

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646.

It is impossible to submit a report of value unless one is able to spend considerable on actual survey work, and this I have been unable to do. However, as Wildlife Ranger, I have covered most of the park this past summer, and during my wanderings I have made general observations of forest conditions. One can readily see, though, that general observations have no scientific value; only through the definite establishment of sample plots which can be cruised every year, and by making semi-annual topographe ic surveys from established observation points, can one definitely know whether there is an increase or decrease in insect infestations from year to year.

I Unit surveyed

A. Park as a unit

II Date of field survey

No definite date for field surveys. General observations
occurred from August to present date

III Method

A. General observation

Throughout the park the infectation appears normal. An occasional infected tree is observed among the sugar pine, penderosa pine, lodgepole and jeffrey pines. The sugar and lodgepole pines are attacked by the Mountain Pine Beetle (Dendroctonus monticolae Hopk.), the penderosa pine by the Western Pine Beetle (Dendroctonus breviconis Hopk.) and the jeffrey pine by the Jeffrey Pine Beetle (Dendroctonus jeffreyi Hopk.).

Lodgepole pine trees in a small basin west of Rockslide Lake on the Kern-Kaweah River have been attacked by the Needle Miner (Recurvaria milleri Busck.). I would say that the trees have been about half defoliated. A half-hour investigation failed to show that an active infestation was in

progress, although if the moths fly in alternate years as in Yosemite, the larvae in the green needles would be very minute at this time and thus difficult to detect. Very few mature dead trees could be found, indicating that the infestation is or was light. The usual associate of the Needle Miner, the Mountain Pine Beetle, was not observed. Area of infestation is about 40 acres.

There is a very light Heedle Miner infestation in ledgecole pine at Mineral King, outside the park, but this has been known for many years. Other areas of infestation no doubt exist in the park, but none has come to my attention.

Mr. S. T. Carleon, representative from the Bureau of Entomology, recesmends control action for portions of the Marble Nork-Yucca Creek unit, the Colony Mill-Grystal Cave area, Moro Rock, Marble Fork, Silliman Creek, and Halatead Creek areas. Before I can make any comments on these recommendations, personal observations will have to be made, but these areas are in and adjacent to units of high use and for this reason should be continually troated.

V Special situations To my knowledge none exists at the present time

Insect control projects accomplished during the year: None.

Future recommendations:

- 1. There should be continuous control work in areas of high use. such as roads, campgrounds, picnic areas and other developed areas.
- 2. There should be a spring and fall curvey of insect conditions, this survey to be continued along lines adopted by Dr. De Leon in his "Report on the 1933 Losses of Sugar Pine and Ponderosa Pine in the Sequois Sational Park". Also, there should be sample plots established in type furial eress such as exist now in the Fast Fork of the Kaweah and at Hockett has one 160-Acre plature Meadows.

Respectfully submitted,

W. B. Angustine. Wildlife Renger.

cc. Director, Attn. Chf. Porester Entom. Field Representative, Bur. Intomology & Plant Quarantine.

United STATES DETARIMENT OF THE INTERIOR National Park Service Washington

1939 Annual Forest Insect Report SEQUOIA NATIONAL PARK

| Name of Plant species attacked | Name of attacking insect | Infestation | | | | Opening | Control | | | |
|--|--------------------------------------|---|--------|----------------------------------|---|-------------------|-------------------------------|--------|-------------------------|--------------------------------------|
| | | Location | Extent | Damage | Status | and closing dates | Treatment Last Year This Year | | Next Year | Estimated total cost next year |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | g, | 10 | 11 |
| Augos Pino Finalizabert Leza) | Mt. Pino Sectle (S.monticela | Coneral thrucut type west- ern part of | | Andividuals dylag to dead. | 014-elight increase over last years | None | liona | 11ctue | hoos comps ores high | \$950 ₀ 0 |
| Penderosa Pine (Pinus ponder- Osa) | | park. | 3430 | Succes | dane | 100 | ď | 99 | Stand | 390,0 |
| Missoy Pina (Pinus Missoyi | Jossan Plas Beetle | 8000 | 3400 | | | u | ac. | ч | Seesi | 500-0 |
| trions contait | ut. Fina a Heatic (D. monticol | Concrat thrucut | | | 614-reasin- | Rone | None | None | Non | 00040 |
| | Recale Mind | | | | ed eme. Old-remained | None | Simo | Real | 23 catego | |

| Date or period of survey: | itted by: | -1, 2, 30,000 0100 |
|---------------------------|-----------|--------------------|
| Unit of survey: | Title: | - ildlife Amger |
| | Date: | -Datobor 50, 1959. |
| Method of survey: | | |